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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,747	12/16/2003	Roshdy George S. Barsoum	21593	3342
7590	09/08/2004		EXAMINER	
Paul M. Craig, Jr. 207 Quaint Acres Drive Silver Spring, MD 20904			SOTELO, JESUS D	
			ART UNIT	PAPER NUMBER
			3617	

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

jm

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/735,747	BARSOUM, ROSHDY GEORGE S.
	<b>Examiner</b>	<b>Art Unit</b>
	Jesús D. Sotelo	3617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_ is/are allowed.
- 6) Claim(s) 1-7,9-17,19 and 20 is/are rejected.
- 7) Claim(s) 8 and 18 is/are objected to.
- 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 16 December 2003 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_.

- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_.

**DETAILED ACTION**

1. Claims 1-20 are in the application.

***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 11-17 and 19 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 11, line 3, the recitation that “sides of the mid-section are also of hybrid composites” implies that parts previously recited were made out of this material. However, there is no previous reference to this in the preceding claims. This creates an ambiguity in the claim.

In claim 14, lines 1-2, there is no proper antecedent for “said composite material”.

In claim 15, line 2, there is no proper antecedent for “the outer shells”.

In claim 16, line 2, there is no proper antecedent for “the stiffener means”.

In claim 19, line 4, there is no proper antecedent for “the composite materials used for the hull outer skin” .

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Mo.

Mo discloses a marine vessel comprising a bow section, a mid-section, and a stern section, in which the mid-section has a curved outer shape and includes an inner section (figure 7) with framing means and longitudinal bulkheads 21.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-7 and 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sikora in view of Critchfield et al.

Sikora discloses a marine vessel generally as claimed, except that while figure 1 appears to show a curved outer shape, it is not very well disclosed. The use of such a curvature is clearly taught by Critchfield et al in a similar vessel. The curvature would be a

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desirable feature to provide better stability. In view of these disclosures, it would have been obvious to one skilled in the art to provide the vessel of Sikora with a curved outer shape generally as taught by Critchfield et al. Critchfield et al additionally teaches the use of composite materials for use in the construction of a ship. It would have been an obvious matter of design choice to one skilled in the art to form some of the parts of the ship from composite materials generally as taught by Critchfield et al.

8. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Harley in view of Critchfield et al.

Harley discloses a catamaran including at least two pontoons connected by a cross structure. Critchfield et al teaches the use of composite materials to construct hulls. In view of these disclosures, it would have been obvious to one skilled in the art to make the hulls of the vessel of Harley with composite materials including steel plating generally as taught by Critchfield et al.

*Allowable Subject Matter*

9. Claims 8 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jesús D. Sotelo whose telephone number is 703-308-2563. The examiner can normally be reached on Mon. - Fri. 6:00 AM -2:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Samuel J. Morano can be reached on 703-308-0230. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Jesús D. Sotelo*  
Jesus D. Sotelo 9/3/04  
*Primary Examiner*  
*Art Unit 3617*  
CPK 5-6D16 ☺

sotelo;jds  
September 3, 2004